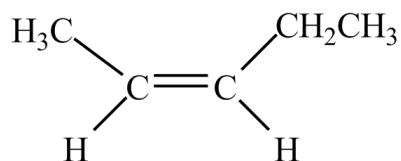


1- Hydrocarbons containing only single bonds between the carbon atoms are called \_\_\_\_\_.

- A) alkenes
- B) alkynes
- C) aromatics
- D) alkanes
- E) ketones

2- What type of compound is shown here?

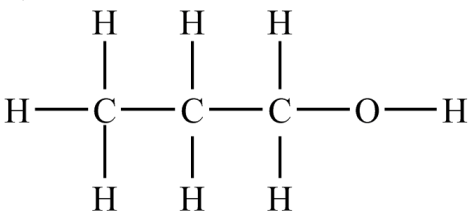
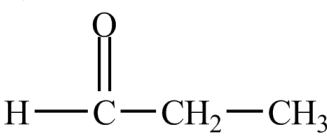
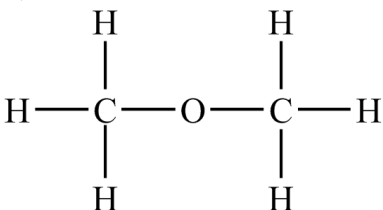
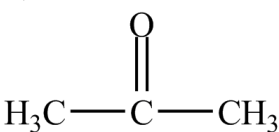


- A) alkyne
- B) alkane
- C) alkene
- D) aromatic hydrocarbon

3) What is the name of two or more compounds with the same molecular formula but with different structure.

- A) Hydrocarbon.
- B) Organic chemistry.
- C) Carbohydrates.
- D) Isomer.

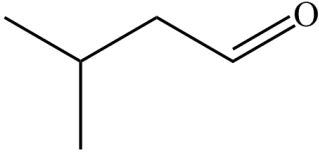
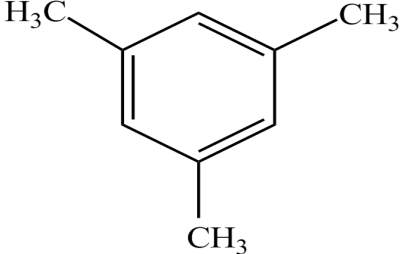
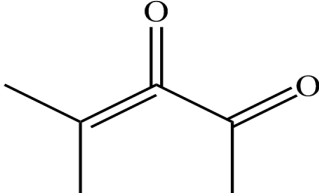
4- Which compound is an aldehyde?

<p>A)</p> 	<p>C)</p> 
<p>B)</p> 	<p>D)</p> 

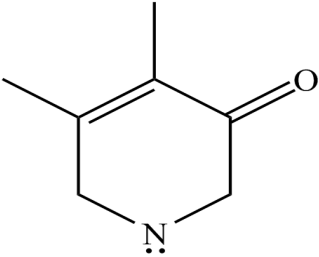
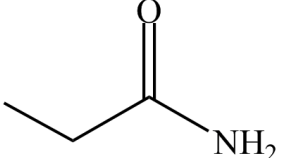
5- Which compound is an alcohol?

<p><b>A)</b></p> $  \begin{array}{ccccccc}  & \text{H} & & \text{H} & & \text{H} & \\  &   & &   & &   & \\  \text{H} & - \text{C} & - & \text{C} & - & \text{C} & - \text{O} - \text{H} \\  &   & &   & &   & \\  & \text{H} & & \text{H} & & \text{H} &   \end{array}  $	<p><b>C)</b></p> $  \begin{array}{ccccccc}  & & & \text{O} & & & \\  & & &    & & & \\  \text{H} & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_3  \end{array}  $
<p><b>B)</b></p> $  \begin{array}{ccccccc}  & \text{H} & & & & \text{H} & \\  &   & & & &   & \\  \text{H} & - & \text{C} & - & \text{O} & - & \text{C} & - \text{H} \\  &   & & & &   & \\  & \text{H} & & & & \text{H} &   \end{array}  $	<p><b>D)</b></p> $  \begin{array}{ccccccc}  & & & \text{O} & & & \\  & & &    & & & \\  \text{H}_3\text{C} & - & \text{C} & - & \text{CH}_3  \end{array}  $

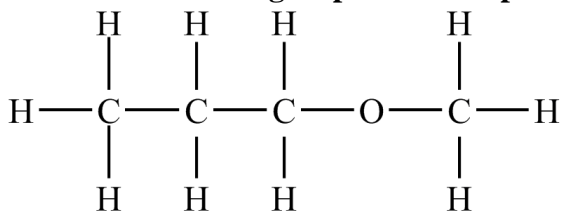
6- Which structure is not possible?

<p><b>A)</b></p> 	
<p><b>B)</b></p> 	<p><b>D)</b></p> $  \begin{array}{ccccccc}  & & & \text{O} & & & \\  & & &    & & & \\  \text{H}_3\text{C} & - & \text{C} & - & \text{CH}_3  \end{array}  $

7- Which compound is an amide?

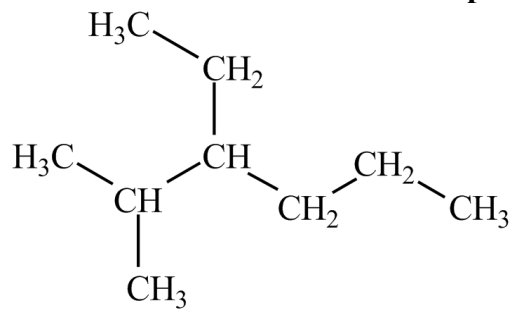
<p>A)</p> $\begin{array}{c} \text{H} \quad \text{H} \\   \quad   \\ \text{H}-\text{C}-\text{N}-\text{H} \\   \quad \cdot\cdot \\ \text{H} \end{array}$	<p>C)</p> $\text{H}_3\text{C}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\text{NH}_2$
<p>B)</p> 	<p>D)</p> 

8- What is the functional group in the compound shown here?



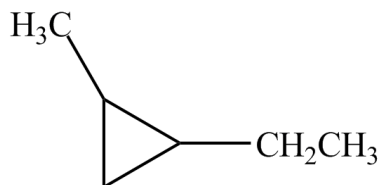
- A) carboxyl group      B) ether      C) ester      D) ketone

9- What is the IUPAC name of this compound?



- A) 4-propylhexane      C) 2-methyl-3-ethylhexane  
 B) 3-ethyl-2-methylhexane      D) 4-ethyl-5-methylheptane

10- What is the IUPAC name of this compound?



- A) ethyl-2-methylcyclopropane  
B) ethyl-2-methylcyclobutane  
C) 1-ethyl-2-methylcyclobutane  
D) 1-ethyl-2-methylcyclopropane  
E) ethyl-2-methylcyclopropane

11- Which monosaccharide is an aldotriose?

A) $\begin{array}{c} \text{CH}_2\text{OH} \\   \\ \text{C}=\text{O} \\   \\ \text{H}-\text{C}-\text{OH} \\   \\ \text{CH}_2\text{OH} \end{array}$	C) $\begin{array}{c} \text{CHO} \\   \\ \text{H}-\text{C}-\text{OH} \\   \\ \text{CH}_2\text{OH} \end{array}$
B) $\begin{array}{c} \text{CHO} \\   \\ \text{HO}-\text{C}-\text{OH} \\   \\ \text{CH}_2\text{OH} \end{array}$	D) $\begin{array}{c} \text{CHO} \\   \\ \text{C}=\text{O} \\   \\ \text{CH}_2\text{OH} \end{array}$

12- What is the general formula for a linear alkane?

- A.  $\text{C}_n \text{H}_n$   
B.  $\text{C}_n \text{H}_{2n+2}$   
C.  $\text{C}_n \text{H}_{n+2}$   
D.  $\text{C}_n \text{H}_{2n-2}$

13- The building blocks of proteins are:

- A) Fatty acids  
B) Glycerols  
C) Amino acids  
D) Glucose

14- The building blocks of lipids are:

- A) Fatty acids  
B) Amino acids  
C) Glucose  
D) Cholesterols

15- The building blocks of starch are:

- A) Amino acids  
B) Glycerol  
C) Glucose  
D) Fatty acids

**16- The sugar found in milk is:**

- A) Sucrose      B) Glucose      C) Fructose      **D) Lactose**

**17- The sugar found in DNA is:**

- A) Sucrose      B) Glucose      **C) 2-Deox ribose**      D) D-Ribose

**18- The name of table sugar is:**

- A) **Sucrose**      B) Glucose      C) Fructose      D) Lactose

**19- Cellulose is a:**

- A) **Polysaccharide**      B) Monosaccharide      C) Disaccharide      D) Proteins

**20- Animals store carbohydrates as:**

- A) cellulose      B) starch      C) glucose      **D) glycogen**